BRUHAT BANGALORE MAHANAGARA PALIKE

Detailed Estimate for :- Construction of compound wall to primary health centre at Kodigehalli and other development works in Ward No.9, Vidyaranyapura.

Estimated cost Rs.25.00 Lakhs

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
1	Earth work in surface excavation in hard soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.50m. excavated surface levelled and neatly dressed , disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.(S.R.of PWD 2015-16 , P.No.5, I.No.2.2)								
	plinth protection	1	15.70	1.50	0.20	4.71			
		1	14.80	1.50	0.20	4.44			
		1	4.40	1.50	0.20	1.32			
	side of building	1	9.90	3.00	0.30	8.91			
	by the side of hospital	1	35.00	50.00	0.25	437.50			
					Total	456.88	219.42	Cum	100248.61
	Basic Rate	207.00							
	Area Weightage @ 6%	12.42							
	Total	219.42							
2	Dismantling burnt brick masonry in clay mortar / lime mortar/ cement mortar and stacking the bricks within a radius of 50m and removing the debris to a distance upto 200m P. No.258, I. No. 37.47								
	Compound wall	1	18.60		1.40	26.04			
		1	3.00		1.40	4.20			
		1	3.10		1.40	4.34			
		1	5.70		1.40	7.98			
					Total	42.56	155.82	~~sqmt~~ Cum	6631.70
	Basic Rate	147.00							
	Area Weightage @ 6%	8.82							
	Total	155.82							
3	Dismantlign of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffoldign wherever necessary, sorting the dismantled material, disposal of unserviceable materials materiai and stacking the serviceable material with all lifts complete as per specifications, iii) Dismantling stone masonry.A. Rubble stone msonry in lime mortar MORTHspecification No.202 . P. 136 I. No. 18.26 - do - B. Rubble stone masonry in cement mortar								
	Compound wall	1	18.60	0.45	0.40	3.35			
		1	3.00	0.45	0.40	0.54			

		1	3.10	0.45	0.40	0.56			
		1	5.70	0.45	0.40	1.03			
					Total	5.47	245.92	Cum	1345.67
	Basic Rate	232.00							
	Area Weightage @ 6%	13.92							
	Total	245.92							
4	Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods etc., complete as per specifications..(P.No.5, I.No.2.4)								
	Compound wall	1	18.60	0.90	0.90	15.07			
		1	3.00	0.90	0.90	2.43			
		1	3.10	0.90	0.90	2.51			
		1	5.70	0.90	0.90	4.62			
		1	50.50	0.90	0.90	40.91			
	retaining wall	1	18.50	0.75	0.75	10.41			
	culvert	1	5.70	2.00	1.20	13.68			
	tree guard	2	2.10	0.60	0.60	1.51			
		2	1.80	0.60	0.60	1.30			
					Total	92.42	283.02	Cum	26157.63
	Basic Rate	267.00							
	Area Weightage @ 6%	16.02							
	Total	283.02							
5	Providing and laying in position plain cement concrete of mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms . Thick, well compacted in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P-12 I.No.4.3)								
	Compound wall	1	18.60	0.90	0.15	2.51			
		1	3.00	0.90	0.15	0.41			
		1	3.10	0.90	0.15	0.42			
		1	5.70	0.90	0.15	0.77			
		1	50.50	0.90	0.15	6.82			
	retaining wall	1	18.50	0.75	0.15	2.08			
	culvert	1	5.70	2.00	0.15	1.71			
	tree guard	2	2.10	0.60	0.15	0.38			
		2	1.80	0.60	0.15	0.32			
	plinth protection	1	15.70	1.20	0.10	1.88			
		1	14.80	1.20	0.10	1.78			

		1	4.00	1.20	0.10	0.48			
	side of building	1	9.90	3.00	0.15	4.46			
					Total	24.01	4976.70	Cum	119489.32
	Basic Rate	4695.00		4867					
	Area Weightage @ 6%	281.70		292.02			5159.02		
	Total	4976.70		5159.02					123848.00
6	Construction of size stone masonry in cement mortor 1:6 for foundation including curing etc., complete with available stone								
	Qty item No.34	5.47							
	30% of 5.47				Total	**1.64**	2468.74	cum	4,053.00
	finished rate	3829.00							
	Deduct cost of materials (B)= 125 nos/cumx10 Rs/No	1250.00							
	deduct 10% over head charges on B	125.00							
	Deduct 10% contractor profit on B	125.00							
	Net Deduction	1,500.00							
		2,329.00							
	Area Weightage @6%	139.74							
	Total	2468.74							
7	Providing and constructing granite/ trap/basalt size stone masonry in foundation in CM 1:6 stone hammed dressed in courses not less than 20cms high, bond stones at two m apart in each course including cost of materials labour, curing etc., complete as per specifications and direction of the Engineer-in-Charge (P-23 I No. 5.6)								
	Compound wall	1	18.60	0.75	0.75	10.46			
		1	3.00	0.75	0.75	1.69			
		1	3.10	0.75	0.75	1.74			
		1	5.70	0.75	0.75	3.21			
		1	50.50	0.75	0.75	28.41			
	culvert	2	5.70	0.60	0.80	5.47			
	tree guard	2	2.10	0.45	0.45	0.85			
		2	1.80	0.45	0.45	0.73			
						52.56			
	Deduct : Available stone quantity as above					1.64			
					Total	50.92	4058.74	Cum	206655.41
	Basic Rate	3829.00		4187					
	Area Weightage @ 6%	229.74		251.22					
	Total	4058.74		4438.22					
8	Providing and constructing granite/ trap/basalt size stone masonry basement with cement mortar 1:8 edges of stones chistle dressed in courses not less than 15cms high, bond stones at two m apart in each course including cost of materials labour, curing etc., complete as per specifications and direction of the Engineer-in-Charge (P-23 I No. 5.9)								
	Compound wall	1	18.60	0.45	0.40	3.35			

		1	3.00	0.45	0.40	0.54			
		1	3.10	0.45	0.40	0.56			
		1	5.70	0.45	0.40	1.03			
		1	50.50	0.45	0.40	9.09			
	tree guard	2	2.10	0.45	0.80	1.51			
		2	1.80	0.45	0.80	1.30			
					Total	17.37	4814.52	Cum	83628.21
	Basic Rate	4542.00							
	Area Weightage @ 6%	272.52							
	Total	4814.52							
9	Providing and laying in position plain cement concrete of mix 1:2:4 using 20mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms . Thick, well compacted in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P-12 I.No.4.6)								
	plinth concrete	1	18.60	0.45	0.10	0.84			
		1	3.00	0.45	0.10	0.14			
		1	3.10	0.45	0.10	0.14			
		1	5.70	0.45	0.10	0.26			
		1	50.50	0.45	0.10	2.27			
		2	2.10	0.45	0.10	0.19			
		2	1.80	0.45	0.10	0.16			
	plinth protection	1	15.70	1.20	0.10	1.88			
		1	14.80	1.20	0.10	1.78			
		1	4.00	1.20	0.10	0.48			
	raising of drain	2	22.20	0.20	0.10	0.89			
		2	50.50	0.20	0.10	2.02			
					Total	11.04	5389.04	Cum	59492.31
	Basic Rate	5084.00							
	Area Weightage @ 6%	305.04							
	Total	5389.04							
10	Providing and constructing precast concrete solid blocks with compressive stength not less than 3.5 Newton per sqmm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S:2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specification P no.25 I. No.5.27								
	Compound wall	1	18.60		2.10	39.06			
		1	3.00		2.10	6.30			
		1	5.60		2.10	11.76			
		1	50.50		2.10	106.05			
	above retaining wall	1	18.50		1.80	33.30			
	pillars	50	0.20		2.10	21.00			
	raising of drain	2	22.30		0.20	8.92			
		2	50.50		0.20	20.20			
					Total	246.59	999.58	sqm	246486.43

	Basic Rate	943.00							
	Area Weightage @ 6%	56.58							
	Total	999.58							
11	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for RCC works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing, main and secondary beams with all lead and lift etc., complete. (exclusive of cost of steel and fabrication charges) P. No.18 I. No. 4.48								
	in fron tof hospital building	1	18.50	4.20	0.15	11.66			
		1	9.90	3.00	0.15	4.46			
					Total	16.11	6214.78	Cum	100120.11
	Basic Rate	5863.00							
	Area Weightage @ 6%	351.78							
	Total	6214.78							
12	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement at 320 kgs with 20mm and down size graded granite metal, 0.69 cum and fine aggregate at 0.46 cum with super plasticizer at 3 ltrs confirming to IS 9103 - 1999 re affirmed 2008 machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated in ground floor level for roof slabs, staircase,lintels & beams, retaining walls,lintel walls, walls any thickness including attached plasters, columns, pillars , pots studs, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills etc., including cost of all materials, labbour, HOM of machinery, curing complete as per specifications. (P.No.14,I.No.4.13)								
	retaining wall mat	1	18.60	0.60	0.30	3.35			
	wall	1	18.60	0.30	1.60	8.93			
					Total	12.28	6229.62	Cum	76474.82
	Basic Rate	5877.00							
	Area Weightage @ 6%	352.62							
	Total	6229.62							
13	Providing and removing centering, shuttering, strutting, propping etc., and removal form work for foundation, footings, bases of columns for mass concrete including cost of material labhour complete as per specification. (P.No.15,I.No.4.28)								
	retaining wall	2	18.60		0.30	11.16			
					Total	11.16	239.56	Sqm	2673.49
	Basic Rate	226.00							
	Area Weightage @ 6%	13.56							
	Total	239.56							

14	Providing and removing centering, shuttering, strutting, propping etc., for columns pillars, post and struts, square / rectangular / polytgon in plan including cost of materials, labhour complete as per specification. (P.No.16,I.No.4.32)								
	retaining wall	2	18.60	1.60		59.52			
					Total	59.52	376.30	Sqm	22397.38
	Basic Rate	355.00							
	Area Weightage @ 6%	21.30							
	Total	376.30							
15	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. P. 112 I. No. 15.3								
	Compound wall	2	72.00		0.40	57.60			
					Total	57.60	97.52	Sqm	5617.15
	Basic Rate	92.00							
	Area Weightage @ 6%	5.52							
	Total	97.52							
16	Providing TMT steel reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wiere and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials labour HOM of machinery complete (P-17 I No. 4.46.2)								
	for M20 concrete @ 85kgs/cum	16.11	0.085		Total	1.37	68513.10	Tonnes	93819.00
	Basic Rate	64635.00							
	Area Weightage @ 6%	3878.10							
	Total	68513.10							
17	Providing 18mm thick cement plaster in single coat with cement mortar 1:4 to brick masonry including rounding off corners wherever required smooth rendering,: providing and removing scaffolding, including cost of materials,labhour, curing complete as per specifications.(P.No.112, I.No.15.15)								
	Compound wall	2	18.60		2.10	78.12			
		2	3.00		2.10	12.60			
		2	5.70		2.10	23.94			
		2	50.50		2.10	212.10			
		2	18.50		1.80	66.60			
	Top	1	94.00		0.20	18.80			
					Total	412.16	244.86	Sqm	100921.50
	Basic Rate	231.00							
	Area Weightage @ 6%	13.86							

	Total	244.86							
18	Providing and finishing external walls in two coats with primer water proof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specification (P-117], I.No. 15.53.2)								
	Compound wall	2	18.60		2.10	78.12			
		2	3.00		2.10	12.60			
		2	5.70		2.10	23.94			
		2	50.50		2.10	212.10			
		2	18.50		1.80	66.60			
	Top	1	94.00		0.20	18.80			
					Total	412.16	83.74	Sqm	34514.28
	Basic Rate	79.00							
	Area Weightage @ 6%	4.74							
	Total	83.74							
19	Constructing brick masonry inspection chamber 600x600mm and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I.cover with frame(light duty) 600x600mm inner dimensions, total weight cover with frame to be not less than 38kg(weight of cover with frame 15kg) R.C.C. top slab with cement 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat on walls and bed concrete complete as per standard including cost of materials, labhour charges, curing complete as per specifications.(P.No.73,I.No.11.50.1)								
a)	455 x 610 mm	1				1.00			
					Total	1.00	8488.48	Nos	8489.00
	Basic Rate	8008.00							
	Area Weightage @ 6%	480.48							
	Total	8488.48							
b)	.-do- 250x150mm and 450mm depth (clear inside dimension) for single pipeline using table moulded non-modular bricks of class designatioin 50 in cement mortar 1:5, C I cover withframe (light duty) 230x150mm P.74 I. No.I1.50.4								
		4				4.00			
					Total	4.00	810.90	Nos	3244.00
	Basic Rate	765.00							
	Area Weightage @ 6%	45.90							
	Total	810.90							

20	Providing and fixign white vitrous china clay, flat back wash basin size 550x500mm with a pair of 15mm C.P. brass pillar taps painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification P. 81 I. No. 12.25								
		4				4.00			
					Total	4.00	3770.42	unit	15082.00
	Basic Rate	3557.00							
	Area Weightage @ 6%	213.42							
	Total	3770.42							
21	Providing and fixing M.S. Grill over existing compound wall as per using 16mm x 16mm M.S. square rod at 150mm c/c spacing and 6mm x 40m M.S. flats at horizontal and 6mmx12mm M.S glat for ornamental design and providing shop edge design at the vertex of every vertical rods including welding, grinding wherever necessary. All thesteel rods, including welding, grinding wherever necessary. Allt he steel surface should be thoroughly cleaned free of rust and painted with anti corrosuve paint (shop paint) etc., complete The work including cost of all materials, labour charges for all items of work, hire charges for welding cutting and grinding equipment, and electricity charges etc., complete as per specifications,. P. No.42 I. No. 7.36								
	AT TREE	1	3.10		2.10	6.51			
	Rising of gate	1	5.00		0.90	4.50			
					Total	11.01	5789.72	sqm	63745.00
	Basic Rate	5462.00							
	Area Weightage @ 6%	327.72							
	Total	5789.72							
22	Providing and fixing RCC precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including formwork, lift charges curing and concrete finished surfaces on both sides etc., complete as per drawing and directiion of engineer in charge. Data rate 5376.00								
	covering drain	1	30.00	2.40		72.00			
	culvert	1	5.70	1.50		8.55			
	in front of hospital property coveirng drain	1	19.00	2.40		45.60			
					Total	126.15	5376.00	sqm	678183.00
23	Providing and laying precast drain cover slab of 100mm thickness in CM 1:3 including cost fo all materials, labour, curing, transportation, loaind unloading etc., complete as per the directions of the Engineer in charge (RA as per BBMP) Data Rate aprroved Rs. 1855								

	covering drain	1	27.00	1.20		32.40			
		1	50.50	1.20		60.60			
					Total	93.00	1855.00	Sqm	172515.00
24	Lead for Disposal of Debris/earth shall be payable at garage rates by Mechanical means including loading and unloading from 0Kms to 15Kms (P.No.124.I.No.Conveying)								
	Qty item no. 1 & 2					549.30			
	dismantled material					10.00			
						559.30	108.65	Cum	60767.00
	Loading and unloading I.No.17.1	62.20							
	for Haulage(surface road Rs. 2.0 T/Km)								
	(density of debris 1.28 t/cum)								
	for 15kms =15x2x1.28	38.40							
		100.60							
	Area Weightage @ 8%	8.05							
	Total	108.65							
								TOTAL RS	2,292,751.01
								KRIDL Charges 9%	206,347.59
								Miscellaneous	901.39
								GRAND TOTAL Rs.	**2500000.00**

Certificate

1. The work spot has been inspected and the work is found necessary
2. This estimate is prepared as per C.S.R. of 2015-16
3. This provisions were made in this estimate are necessary and adequate
4. This work comes under B.B.M.P limits

Priya Parshi

Asst. Engineer
BBMP

Asst. Executive Engineer Project
Yelahanka Zone, BBMP

Executive Engineer project
Yelahanka Zone
BBMP
1/12/16

Administrative Approval
Accorded For 25.00 lakh Rs.
Head of A/C P-2415
CER NO : 65 Dt. 28. 12 16

TA CE (YNK)

Technical Sanction
Accorded For 25.00 lakh Rs.
Head of A/C P-2415
CER NO : 79 Dt. 28 12 16

TA CE (YNK)